

ABSTRACT

In order to provide a positive electrode active material capable of producing an alkaline storage battery having a high discharge voltage and an excellent discharge characteristic and also provide a positive electrode and alkaline storage battery containing thereof, a positive electrode active material for an alkaline storage battery comprising a nickel hydroxide powder is used, in which the nickel hydroxide is a solid solution containing magnesium, the magnesium content in the nickel hydroxide is 2 to 7 mol% of all metallic elements contained in the nickel hydroxide, the tap density of the nickel hydroxide is 1.9 g/cm³ or more, the half-width of a peak attributed to (101) face near $2\theta = 37$ to 40° in a powder X-ray diffraction pattern of the nickel hydroxide by $\text{CuK}\alpha$ radiation is 0.7 to 1.2° and the sulfate ion content in the nickel hydroxide is 0.5 wt% or less.

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